

**Electronic Filing System (EFS) Data**  
**Electronic Patent Application Submission**  
**USPTO Use Only**

EFS ID: 13418  
Application ID: 09683439  
Title of Invention: Switching-Mode Power Converter  
with Complementary  
Synchronous Rectification  
First Named Inventor: Xiao Ping Jin  
Domestic/Foreign Application: Domestic Application  
Filing Date: null  
Effective Receipt Date: 2001-12-28  
Submission Type: Utility Patent Filing  
Filing Type: null  
Confirmation Number: 0  
Attorney Docket Number: 3360-07  
Digital Certificate Holder: cn=Kam T. Tam, ou=Registered Attorneys, ou=Patent and  
Trademark Office, ou=Department of Commerce, o=U.S.  
Government, c=US  
Certificate Message Digest: 6o37FUq0PVMqq2lChtMfvg==  
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Expiration Date: 03012003  
Card Holder Name: Kam T. Tam  
RAM User ID: EFSPROD  
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# TRANSMITTAL FORM

JC474 U.S. PTO  
09/683439  
12/28/01

Electronic Version 1.0.3

Stylesheet Version: 1.0

Attorney Docket  
Number:

3360-  
07

Submission Type: Utility Patent  
Filing

## Switching-Mode Power Converter with Complementary Synchronous Rectification

First Named Inventor: Dr. Xiao Ping Jin

### SUBMITTED BY

Name: Mr. Kam T. Tam  
Registration Number: 35756  
Electronic Signature Mark: /KTT/ Date Signed: 20011228

*I certify that the use of this system is for OFFICIAL correspondence between patent applicants or their representatives and the USPTO. Fraudulent or other use besides the filing of official correspondence by authorized parties is strictly prohibited, and subject to a fine and/or imprisonment under applicable law.*

*I, the undersigned, certify that I have viewed a display of document(s) being electronically submitted to the United States Patent and Trademark Office, using either the USPTO provided style sheet or software, and that this is the document(s) I intend for initiation or further prosecution of a patent application noted in the submission. This document(s) will become part of the official electronic record at the USPTO.*

### Attached Files:

declaration	declare.tif
small-entity	sentity.tif
patent-assignments	3360-07asgn.xml

specification.xml

3360-07fee.xml

3360-07apds.xml

declare.tif

sentity.tif

[illegible]

**Comments:**

Please direct future correspondence to Patent Attorney: Kam T. Tam Attorney at Law 3077 Pavan Drive  
San Jose, CA 95148 Telephone: (408) 238-9816 Facsimile: (408) 238-3865

09683439 "624950

**DECLARATION FOR UTILITY OR DESIGN PATENT APPLICATION**

As a below-named inventor, I hereby declare that my residence, post office address, and citizenship are as stated below next to my name and that I believe that I am the original, first, and sole inventor of the subject matter which is claimed and for which a patent is sought on the invention, the specification of which is attached hereto and which has the following title:

**"Switching-Mode Power Converter with Complementary  
Synchronous Rectification"**

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to in the oath or declaration. I acknowledge a duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56(a).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Title 18, United States Code, Section 1001, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: Xiao Ping Jin  
Residence: 1719 South Grand Ave., Santa Ana, CA 92705  
Post Office Address: \_\_\_\_\_  
Telephone: (714) 259-4888 (ext. 224)  
Citizenship: Singapore

Inventor's Signature: Jin Xiao Ping Date: 12/26/01

Full name of second joint inventor: Jian Ping Fan  
Residence: 6984 E. Villanueva Dr., Orange, CA 92867  
Post Office Address: \_\_\_\_\_  
Telephone: (714) 974-5914  
Citizenship: Singapore

Inventor's Signature: Jian Ping Fan Date: 12/26/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant or Patentee: James L. Lau  
Title: Switching-Mode Power Converter with Complementary Synchronous Rectification

Small Entity Declaration - Small Business Concern

I hereby declare that I am

- ☐ the owner of the small business concern identified below:  
☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF SMALL BUSINESS CONCERN: Broadband Telcom Power, Inc.  
ADDRESS OF SMALL BUSINESS CONCERN: 1719 South Grand Ave.,  
Santa Ana, CA 92705

I hereby declare that the above identified small business concern qualifies as small business concern in 13 CFR 121.12, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees to the United States Patent and Trademark Office, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of the statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or seasonal basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other if they are directly or indirectly, one concern controls or has the power to control the other, or a third party or part of the concern controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the invention described in the specification filed herewith with this application. If the rights held by the above identified small business concern are not exclusive, each individual or organization having rights in the invention must file separate verified statements averring to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.91(c) if that person made the invention, or by any concern which does not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.91(e).

Each person, concern or organization having any rights in the invention listed below:

- ☒ no such person, concern or organization exists.  
☐ each such person, concern or organization is listed below.

Separate verified statements are required from each named person, concern or organization having rights in the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in the application or patent, notification of any change in the status of the invention as a small entity, loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee, the maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.27)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made herein of my belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such false statements may jeopardize the validity of the any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING James L. Lau  
TITLE OF PERSON IF OTHER THAN OWNER Chief Executive Officer  
ADDRESS OF PERSON SIGNING 1719 South Grand Ave., Santa Ana, CA 92705

SIGNATURE  DATE 10/19/01

# FEE TRANSMITTAL

Electronic Version 1.1.0

Stylesheet Version: 1.0

*Patent fees are subject to annual revisions on or about October 1st of each year.*

Small Entity

Small Business Concern

**TOTAL FEES AUTHORIZED: \$ 455**

## BANK (CREDIT) CARD INFORMATION:

Credit Card Number: 0908  
Expiration Date: 20030301  
Authorized Name: Kam T. Tam  
Billing Address: 95148

## BASIC FILING FEE

Fee Description	Fee Code	Fee Paid
Utility Filing Fee	201	\$ 370

Subtotal For Basic Filing Fee: \$ 370

## EXTRA CLAIM FEES

	Fee Code	Fee	Extra Claims	Fee Paid
Total Claims: 25	203	\$ 9	5	\$ 45
Independent Claims: 3	202	\$ 42	0	\$ 0

Subtotal For Extra Claims Fees: \$ 45

## ADDITIONAL FEES

Fee Description	Number	Quantity	Fee Code	Amount	Fee Paid
Recording Each Patent Assignment Per Property Fee	00000000	1	581	\$ 40	\$ 40

Subtotal For Additional Fees: \$ 40